

Claims

Claim 1. An electric cooker comprising an upper cover, an inner container, a heater, a heat insulator and a temperature control system, characterized in that the distance between said heater and said inner container is larger than zero; a radiant chamber is formed by said inner cavity and said heat insulator; said heater is installed in said radiant chamber; a detector of said temperature control system is disposed within said upper cover.

Claim 2. The electric cooker of claim 1, characterized in that said upper cover comprises an outer cover, an inner cover and a fixed temperature-controlling metal heat-conducting plate; a temperature controller is installed on said fixed temperature-controlling metal heat-conducting plate between said outer cover and inner cover; and a steam outlet port is provided at the center of said inner cover.

Claim 3. The electric cooker of claim 1, characterized in that the shape of the bottom of said inner container fits that of the concave surface of electric heating tube.

Claim 4. The electric cooker of claim 1 or 3, characterized in that a silica-gel sealing-ring is provided along the upper periphery of said inner container.

Claim 5. The electric cooker of claim 1 or 3, characterized in that a temperature sensor for over temperature protection is provided at the bottom of said inner container.

Claim 6. The electric cooker of claim 1, characterized in that said heat insulator comprises three layers including an outer heat-insulating casing, an intermediate heat-insulating casing, and an inner heat-insulating casing, with the upper end of said inner heat-insulating casing contacting said inner container, and heat-insulating fiber provided between said inner heat-insulating casing and intermediate heat-insulating casing.

Claim 7. The electric cooker of claim 1 or 6, characterized in that a drain tube is provided at the bottom of said inner heat-insulating casing.